

ABSTRACT OF THE DISCLOSURE

[083] A color shifting multilayer interference film is provided which may be used to produce foils or flakes for use in pigment compositions and colorants having color shifting properties. The flakes can be interspersed into a pigment medium to form paints, inks, or cosmetic preparations which can subsequently be applied to objects, papers, or people. Three and five layer designs of the interference film include alternating layers of a dielectric material and carbon in various configurations. The dielectric layers are formed to have an optical thickness at a design wavelength that provides a color shift as the angle of incident light or viewing angle changes.